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Watching for "First Blow" -

WHY U.S. PLANES PATROL RED FRONTIERS

U.S. aircraft, flying the Soviet-Turkish border, are only one part of a gigantic but littleknown defense mission.

Mission: to keep constant tab on Soviet forces, detect the first sign of any preparations for surprise attack.

More than planes are involved Elaborate radar, other electronic STATWatchdogs" are alert to pick up any move by Russia.

> When five Soviet jets last September attacked and shot down an unarmed S. transport plane, killing 17 U.S. ir Force personnel, these questions ere raised: Why are unarmed U.S. lanes flying even close to the Soviet orders? What's the mystery about U.S. ctivities in these danger areas?

The answer is that there is no nystery at all about U.S. aetivities n the Soviet borders. In today's langerous world, this country has nnounced that it will accept the first blow" rather than attack if var threatens. That blow, if sucessfully delivered, could destroy nuch of the U.S.

Billions for detection. Survival hus depends upon being able to liscover what a potential enemy capable of delivering such a blow is planning. So the United States is putting billions of dollars into radar and other clectronic "eyes and cars" as a first line of defense against a surprise attack by the

Soviet Union.

What the U.S. is seeking with its air patrols, its sensitive radar and radio-detection equipment now surrounding Russia is something less than 20 minutes' warning of any Soviet intercontinental ballistic missile fired at the U.S. or its allies. This would be time enough to get U. S. bombers into the air and U. S. missiles off launching pads for re-

taliatory nuclear strikes.

operates at present:

Powerful radio listening posts algready surround the Soviet Union, in constant operation, day and night. These "ears" not only record what is said by fixed stations, but even pick up short-distance radio communications between mobile units of the Red Army in the field thousands of miles from the Western "ears."

. Giant radar screens, capable of pinpointing objects in motion up to 3,500 miles away, are constantly scanning the Soviet Union from the U.S. and

from bases in Allied countries.

C • U. S. patrol planes, loaded with electronic "listening" and "watching" equipment, are in the air in several areas close to the Soviet frontier. It was one of these planes which U.S. Air Force experts now are convinced was deliberately lured into Soviet Armenia and shot down, though imarmed, last September 2.

★ • All sorts of electronic "ears" in the air and on the ground in many parts of and the second s

of the U.S. surveillance system as it, the world are keeping a watch on Krasny Yar, the Soviet missile-testing station similar to Cape Canaveral, Florida, and on other areas where the Soviet Union is operating or building missilelaunching bases for intercontinental ballistic missiles.

In addition, the U.S. is speeding up the construction of the Ballistic Missile Early Warning System known as "B-MEWS." This system, which will cost at least 250 million dollars, is to augment the existing Distant Early Warning

(DEW) Line in the Arctic.

Z years old, obsolete. DEW Line. put on an operational basis less than two years ago, cost 600 million dollars. But DEW Line's 58 stations can provide information only on aircraft, not ICBM's, and therefore are alread obsolete

B-MEWS is to have thr TAT INTL "eyes and ears"-stations about 1,000 miles apart capable of picking up the launching of the big missiles 3,500 miles away. The radar equipment for B-MEWS stations is mounted on 16-story towers

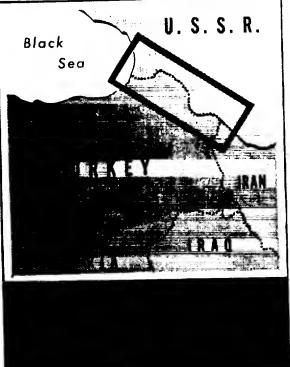
Data thus gathered are funneled into evaluation and tracking sys tems. The results are transmitted in a matter of seconds to U.S. de-

fense headquarters.

Concrete bases for two B-MEWS sites were poured at Clear, Alaska, and at Thule, Greenland, in the Aretic summer of 1958. Steel towers already are under construction. Power plants, towers and buildings alone will cost 189 million dollars for three stations, apart from the cost of electronic equipment. The third station may be located in Northern Scotland. L

Electronic "missile cypichers" LA host of electronic devices and carriers already are operational and may be used in the U.S. effort to keep a watch on the ballistic missiles of the Soviet Union. Most arcs under heavy wraps of official se-

The U.S. Army recently reported successful tests of a "snooper" drone, designated the SD-3. This pilotless plane is just 15 feet long, with a wing span of 11 feet. When packed with electronic companies and where devices for



This much, now, can be reported For Release 2002/05/07: CIA-RDP83-01022R000100200014-7

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ground and air observation, it weighs less than half a ton. The "snooper" is launched by rocket motors from a mobile trailer and is capable of fast, low-level flight. It can transmit data in flight and can be equipped with a self-destructive G Electromagnetic energy is the chief device.

designed for battlefield use in a shooting war, can be used in the "cold war" job of watching the Soviet Union. But some such drones may be used for borderpatrol work in the future to avoid loss of Prime objects of the U.S. electronic, say, either by a direct hit of missiles watch on the Soviet Union, of course, are equipped to "home" on the attacking the Red ICBM's, which, Soviet leaders, ICBM or by exploding a nuclear missile boast, can hit "any target anywhere in high in the air in the path of the attacker. the world.

There is no word that the "snooper, ICBM's and even intermediate signed for ball 2.11 missiles generate such energy on launching that they can be detected for thousands of miles by U.S. equipment.

In addition, these missiles leave be-

RADAR STATIONS and other electronic equipment—including that in air patrols—help give the U.S. its first line af defense against a Red missile attack

STATINTL life even if the "snooper" is drawn into Soviet territory

A Soviet trap. The unarmed C-130 ansport plane which was shot down by oviet jet fighters last September in So bet Armenia was equipped for electronic snrveillance" work, but it was under rders to stay in Torkey. A week later be U.S. Air Force sent another plane on he same route to try to ascertain what ad happened.

The second plane discovered that Rus < sian directional beams out of Soviete Georgia and Soviet Armenia were put into operation on the same frequency as the beam from the Turkish tower at the Trabzon air base, overpowering this beam. It was a Soviet trap, U.S. Air Force officials said, which drew the first C. S. plane into Soviet territory Flor, tronic "snoopers," controlled from the ground could avoid Approved For Rejease 2002/05/07 : CIA-RDP83-01022R000100200014-7

trail, once a missile is spotted in the air, permits the electronic "eyes" not only to trace the missile back to its base but to give data which will determine the target area of the missile.

CBM's and decoys. It is entirely possible. U.S. experts report, for the Soviet Imissile men to provide their ICBM's with "decoys." The rocket cosing itself, experts say, can be exploded at some point m flight, causing large fragments to break away from the warhead and to follow courses of their own. Such fragments would be larger than the warhead, though not as heavy. In addition, Soviet missile men could seek to confuse watchers, on attack, by setting off several 1CBM's simultaneously

By 1964, the U.S expects to have in operation animustle messies which can most house it and can the way and the then your ine make Paperts

This last method would create across the path of the attacking ICBM a miclear "oven" which would "cook" and destroy

In 1964 as today, however, U.S. defenses will be totally dependent on getting an early warning of Soviet missile lannelings directed at targets in the hind them a trail of ionized gases. This Western world. Normal intelligence Shannels involving agents are far too slow for the job. Only "electronic espionage," according to defense experts, can provide such warning.

Radar at work. Rapid advances have (been made in the U.S. on the radar and other instruments required for "early warning" systems. Early in 1957, for example, the General Electric Company, working with the U.S. Air Force and the Turkish Government, <u>set up a coherent</u> detection <u>radar system at Samsun,</u> a Turkish port on the Black Sea. This sys-Dem, developed by the Lincoln Laboratory of the Massachusetts Institute of Technology, had a 1,000-mile watching and listening range. As the Samson system began operations, however, the Ommrange Digital Radar (ODIR) System was developed at Columbia University. It extends U.S. radar range to well

over 3,500 miles. (3,000 miles)
The ODIR system, said to be installed already in the Turkish listening post, feeds data into computers and then into high-speed teletypewriters which can be booked up with the U.S. Air Force Continental Defense headquarters in Colorado Springs, Colorado, Similarly, Air Force commanders in the U.S. can, at the flip of a switch, talk to combat comananders at U.S. bases the world over.

Records of squeaks. A year ago the British magazine "Isis," published in Oxford, reported: "All along the frontier between East and West, from Iraq to the Baltic, perhaps farther, are monitoring stations, manned largely by national servicemen trained in Morse or Russian, widly recording the least squeak from Russian transmitters—ships, tanks, aeroblanes, troops and control stations.

For that report of "electronic espiohage" two Oxford students were arrested and jailed for three months for violation of the Official Secrets Act, Since that report, however, the U.S. Government itself has released much information on the Allied effort to reach into Soviet territory with electronie "eyes and ears" to guard against a Soviet sneak attack on the West